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=> b medline caplus lifesci embase uspatfull biosis
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FULL ESTIMATED COST                                       0.21       0.21

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=> s lgs
L1         1135 LGS

=> s hlgs
L2           17 HLGS

=> s lgs or hlgs or legless
L3         1459 LGS OR HLGS OR LEGLESS

=> s l3 and protein
L4          160 L3 AND PROTEIN

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5           89 DUP REM L4 (71 DUPLICATES REMOVED)

=> s l5 and (bcl()9) or wnt
L6        10213 L5 AND (BCL(W) 9) OR WNT

=> s l5 and ((bcl()9) or wnt)
L7            4 L5 AND ((BCL(W) 9) OR WNT)

=> d l7 ibib abs tot

L7   ANSWER 1 OF 4     MEDLINE
ACCESSION NUMBER:    2002218848     MEDLINE
DOCUMENT NUMBER:     21952490   PubMed ID: 11955446
TITLE:                 ***Wnt***  /wingless signaling requires BCL9/
                       ***legless***  -mediated recruitment of pygopus to the
                     nuclear beta-catenin-TCF complex.
AUTHOR:              Kramps Thomas; Peter Oliver; Brunner Erich; Nellen Denise;
                     Froesch Barbara; Chatterjee Sandipan; Murone Maximilien;
                     Zullig Stephanie; Basler Konrad
CORPORATE SOURCE:    Institut fur Molekularbiologie, Universitat Zurich,
                     Winterthurerstrasse 190, CH-8057, Zurich, Switzerland.
SOURCE:              CELL, (2002 Apr 5) 109 (1) 47-60.
                     Journal code: 0413066. ISSN: 0092-8674.
PUB. COUNTRY:        United States
DOCUMENT TYPE:       Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:            English
FILE SEGMENT:        Priority Journals
OTHER SOURCE:        GENBANK-AF457205; GENBANK-AF457206; GENBANK-AF457207;
                     GENBANK-AF457208; GENBANK-XM050063
ENTRY MONTH:         200205
ENTRY DATE:          Entered STN: 20020417
                     Last Updated on STN: 20020509
                     Entered Medline: 20020508
AB     ***Wnt***  /Wingless signaling controls many fundamental processes
     during animal development.   ***Wnt***   transduction is mediated by the
     association of beta-catenin with nuclear TCF DNA binding factors. Here we
     report the identification of two segment polarity genes in Drosophila,
```

their products are required for ***Wnt*** signal transduction at the level of nuclear beta-catenin. ***Lgs*** encodes the homolog of human BCL9, and we provide genetic and molecular evidence that these proteins exert their function by physically linking Pygo to beta-catenin. Our results suggest that the recruitment of Pygo permits beta-catenin to transcriptionally activate ***Wnt*** target genes and raise the possibility that a deregulation of these events may play a causal role in the development of B cell malignancies.

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:754420 CAPLUS
DOCUMENT NUMBER: 137:274135
TITLE: cDNAs encoding Drosophila melanogaster, mouse and human Dall (daughter of ***legless***) proteins of the ***Wnt*** /Wg signaling pathway and their diagnostic and therapeutic use
INVENTOR(S): Kramps, Thomas; Basler, Konrad
PATENT ASSIGNEE(S): Universitaet Zuerich, Switz.
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002077023	A2	20021003	WO 2002-CH63	20020201
WO 2002077023	A3	20030116		

W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-277976P P 20010323
AB The present invention relates to a new essential downstream component of the wingless signaling pathway. In particular, the invention relates to nucleotide sequences of the Drosophila melanogaster daughter of ***legless*** (dall) gene, of its encoded proteins, as well as derivs., fragments and analogs thereof. The invention includes vertebrate and invertebrate homologues of the Dall ***protein*** , comprising proteins that contain a stretch of amino acids with similarity to the Drosophila Dall gene. Methods for producing the Dall ***protein*** , derivs. and analogs, e.g. by recombinant means, and antibodies to Dall are provided by the present invention as well. The invention also relates to methods for performing high throughput screening assays for compds. modulating Dall function in the ***Wnt*** pathway.

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:505439 CAPLUS
DOCUMENT NUMBER: 137:89997
TITLE: ***Legless*** , essential downstream component of wingless signaling pathway, and therapeutic and diagnostic applications based thereon
INVENTOR(S): Basler, Konrad; Brunner, Erich; Froesch, Barbara; Kramps, Thomas; Peter, Oliver
PATENT ASSIGNEE(S): Switz.
SOURCE: U.S. Pat. Appl. Publ., 41 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002086986	A1	20020704	US 2001-915543	20010727

PRIORITY APPLN. INFO.: US 2000-221502P P 20000728
AB The present invention relates to a new essential downstream component of the ***Wnt*** /Wingless (***Wnt*** /Wg) signaling pathway and therapeutic and diagnostic applications based thereon. The invention

legless (***lgs***) gene, of its encoded ***protein*** , as well as derivs. (e.g., fragments) and analogs thereof. The invention further includes the human homologs of the ***Lgs*** ***protein*** and cDNAs encoding them. Methods for producing the ***Lgs*** proteins, derivs. and analogs, e.g., by recombinant means and antibodies to ***Lgs*** are provided by the present invention. In addn., the invention also relates to the therapeutic and diagnostic methods and compns. based on ***Lgs*** proteins and nucleic acids or fragments thereof. Thus, the human homolog of ***lgs*** was found to be ***bcl*** - ***9*** , previously implicated in B cell malignancies. A second human ***lgs*** homolog was called ***lgs*** -1. The Drosophila ***Lgs*** ***protein*** formed a complex with Armadillo and Pangolin and enhanced the transcriptional activity of the complex.

L7 ANSWER 4 OF 4 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 1998020962 EMBASE
TITLE: Developmental regulation and asymmetric expression of the gene encoding Cx43 gap junctions in the mouse limb bud.
AUTHOR: Meyer R.A.; Cohen M.F.; Recalde S.; Zakany J.; Bell S.M.; Scott W.J. Jr.; Lo C.W.
CORPORATE SOURCE: C.W. Lo, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104, United States
SOURCE: Developmental Genetics, (1997) 21/4 (290-300).
Refs: 63
ISSN: 0192-253X CODEN: DGNTDW
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 021 Developmental Biology and Teratology
022 Human Genetics
LANGUAGE: English
SUMMARY LANGUAGE: English
AB The Gja 1 gene encoding the gap junction connexin 43 (Cx43) is dynamically regulated during limb morphogenesis. Transcript expression is found in many regions of the limb bud known to be important in regulating limb growth and patterning. In the newly emerged limb bud, Gja 1 transcripts are first expressed in the ventrodistal margin of the ectoderm, and later transcript expression is localized to the apical ectodermal ridge (AER). Interestingly, transcript expression in the ventrodistal ectoderm is initiated left/right asymmetrically, with some strain backgrounds showing reverse sidedness in the fore vs. hindlimb buds. In ***legless*** , a mouse mutant exhibiting both limb and left/right patterning defects, Gja 1 transcripts could not be detected in this region. However, in the iv/iv embryo, a mutant with randomization of body situs, the same pattern of Gja 1 asymmetry was found in the limb ectoderm regardless of body situs. This suggests that Gja 1 transcript expression is not directly linked to signaling pathways involved in specification of the left/right axis. In addition to transcript expression in the apical ectodermal ridge, Gja 1 transcripts were also found at high levels in the ventral ectoderm. In the limb bud mesenchyme, Gja 1 transcripts were distributed in a posterior distal gradient, coincident with tissue known to have polarizing activate. With limb outgrowth and the initiation of limb mesenchyme condensation, Gja 1 transcripts were localized in the presumptive progress zone, and in the condensing mesenchyme. In more proximal regions of the limb where mesenchyme differentiation has been initiated, Gja 1 transcripts were expressed only in the outer mesenchymal cells comprising the presumptive perichondrium. Further analysis of transgenic mice ectopically expressing ***Wnt*** -1 in the limb mesenchyme revealed alterations in the pattern of Gja 1 transcript expression in conjunction with the perturbation of limb mesenchyme condensation and differentiation. Together, these findings indicate that Cx43 gap junctions may mediate cell-cell interactions important in cell signaling processes involved in limb growth and patterning.

```
=> e Basler ?/au
E1            1     BASLEGA JOSE/AU
E2            1     BASLEN MAX/AU
E3            0 --> BASLER ?/AU
E4          145     BASLER A/AU
E5            1     BASLER A L/AU
E6            1     BASLER AD/AU
E7            5     BASLER ADOLF/AU
E8           17     BASLER ARMIN/AU
E9           18     BASLER B/AU
E10           1     BASLER BARBARA/AU
E11           2     BASLER BENNO/AU
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=> e Basler k?/au
E1            1     BASLER JULIAN N/AU
E2          165     BASLER K/AU
E3            0 --> BASLER K?/AU
E4            1     BASLER KEITH R/AU
E5          105     BASLER KONRAD/AU
E6            3     BASLER L/AU
E7           72     BASLER M/AU
E8            1     BASLER M L/AU
E9            2     BASLER MARIANNE/AU
E10           4     BASLER MARTIN/AU
E11           4     BASLER MICHAEL/AU
E12           5     BASLER MICHEL/AU

=> s e2 or e5
L8          270 "BASLER K"/AU OR "BASLER KONRAD"/AU

=> dup rem l8
PROCESSING COMPLETED FOR L8
L9           78 DUP REM L8 (192 DUPLICATES REMOVED)

=> s l9 and (lgs or hlgs or legless)
L10           3 L9 AND (LGS OR HLGS OR LEGLESS)

=> d l10 ibib abs tot

L10  ANSWER 1 OF 3     MEDLINE
ACCESSION NUMBER:    2002218848     MEDLINE
DOCUMENT NUMBER:     21952490   PubMed ID: 11955446
TITLE:               Wnt/wingless signaling requires BCL9/  ***legless***
                     -mediated recruitment of pygopus to the nuclear
                     beta-catenin-TCF complex.
AUTHOR:              Kramps Thomas; Peter Oliver; Brunner Erich; Nellen Denise;
                     Froesch Barbara; Chatterjee Sandipan; Murone Maximilien;
                     Zullig Stephanie;   ***Basler Konrad***
CORPORATE SOURCE:    Institut fur Molekularbiologie, Universitat Zurich,
                     Winterthurerstrasse 190, CH-8057, Zurich, Switzerland.
SOURCE:              CELL, (2002 Apr 5) 109 (1) 47-60.
                     Journal code: 0413066. ISSN: 0092-8674.
PUB. COUNTRY:        United States
DOCUMENT TYPE:       Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:            English
FILE SEGMENT:        Priority Journals
OTHER SOURCE:        GENBANK-AF457205; GENBANK-AF457206; GENBANK-AF457207;
                     GENBANK-AF457208; GENBANK-XM050063
ENTRY MONTH:         200205
ENTRY DATE:          Entered STN: 20020417
                     Last Updated on STN: 20020509
                     Entered Medline: 20020508
AB   Wnt/Wingless signaling controls many fundamental processes during animal
     development. Wnt transduction is mediated by the association of
     beta-catenin with nuclear TCF DNA binding factors. Here we report the
     identification of two segment polarity genes in Drosophila,
       ***legless***   (  ***lgs***  ), and pygopus (pygo), and we show that
     their products are required for Wnt signal transduction at the level of
     nuclear beta-catenin.   ***Lgs***   encodes the homolog of human BCL9, and
     we provide genetic and molecular evidence that these proteins exert their
     function by physically linking Pygo to beta-catenin. Our results suggest
     that the recruitment of Pygo permits beta-catenin to transcriptionally
     activate Wnt target genes and raise the possibility that a deregulation of
     these events may play a causal role in the development of B cell
     malignancies.

L10  ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:        2002:754420  CAPLUS
DOCUMENT NUMBER:         137:274135
TITLE:                   cDNAs encoding Drosophila melanogaster, mouse and
                         human Doll (daughter of   ***legless***  ) proteins of
                         the Wnt/Wg signaling pathway and their diagnostic and
                         therapeutic use
INVENTOR(S):             Kramps, Thomas;   ***Basler, Konrad***
PATENT ASSIGNEE(S):      Universitaet Zuerich, Switz.
SOURCE:                  PCT Int. Appl., 68 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
```

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002077023	A2	20021003	WO 2002-CH63	20020201
WO 2002077023	A3	20030116		

W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-277976P P 20010323

AB The present invention relates to a new essential downstream component of the wingless signaling pathway. In particular, the invention relates to nucleotide sequences of the Drosophila melanogaster daughter of ***legless*** (doll) gene, of its encoded proteins, as well as derivs., fragments and analogs thereof. The invention includes vertebrate and invertebrate homologues of the Doll protein, comprising proteins that contain a stretch of amino acids with similarity to the Drosophila Doll gene. Methods for producing the Doll protein, derivs. and analogs, e.g. by recombinant means, and antibodies to Doll are provided by the present invention as well. The invention also relates to methods for performing high throughput screening assays for compds. modulating Doll function in the Wnt pathway.

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:505439 CAPLUS
DOCUMENT NUMBER: 137:89997
TITLE: ***Legless*** , essential downstream component of wingless signaling pathway, and therapeutic and diagnostic applications based thereon
INVENTOR(S): ***Basler, Konrad*** ; Brunner, Erich; Froesch, Barbara; Kramps, Thomas; Peter, Oliver
PATENT ASSIGNEE(S): Switz.
SOURCE: U.S. Pat. Appl. Publ., 41 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002086986	A1	20020704	US 2001-915543	20010727

PRIORITY APPLN. INFO.: US 2000-221502P P 20000728

AB The present invention relates to a new essential downstream component of the Wnt/Wingless (Wnt/Wg) signaling pathway and therapeutic and diagnostic applications based thereon. The invention relates to nucleotide sequences of the Drosophila melanogaster ***legless*** (***lgs***) gene, of its encoded protein, as well as derivs. (e.g., fragments) and analogs thereof. The invention further includes the human homologs of the ***Lgs*** protein and cDNAs encoding them. Methods for producing the ***Lgs*** proteins, derivs. and analogs, e.g., by recombinant means and antibodies to ***Lgs*** are provided by the present invention. In addn., the invention also relates to the therapeutic and diagnostic methods and compns. based on ***Lgs*** proteins and nucleic acids or fragments thereof. Thus, the human homolog of ***lgs*** was found to be bcl-9, previously implicated in B cell malignancies. A second human ***lgs*** homolog was called ***lgs*** -1. The Drosophila ***Lgs*** protein formed a complex with Armadillo and Pangolin and enhanced the transcriptional activity of the complex.

=> e brunner E?/au

E1	3		BRUNNER E L/AU
E2	1		BRUNNER E M/AU
E3	0	-->	BRUNNER E?/AU
E4	1		BRUNNER EARNST/AU
E5	4		BRUNNER EBERHARD/AU
E6	2		BRUNNER ECKHARD/AU

```
E8            1      BRUNNER EDELTRAUT/AU
E9            5      BRUNNER EDGAR/AU
E10           1      BRUNNER EDI/AU
E11           2      BRUNNER EDUARD/AU
E12           2      BRUNNER EDUARD J/AU

=> e brunner Er?/au
E1            2      BRUNNER ENGELBERT/AU
E2           17      BRUNNER ENNO/AU
E3            0 --> BRUNNER ER?/AU
E4           29      BRUNNER ERIC/AU
E5            5      BRUNNER ERIC J/AU
E6            2      BRUNNER ERIC P/AU
E7           23      BRUNNER ERICH/AU
E8            1      BRUNNER ERICH EDUARDO/AU
E9            1      BRUNNER ERIK/AU
E10           3      BRUNNER ERNEST/AU
E11          10      BRUNNER ERNST/AU
E12          44      BRUNNER ERWIN/AU

=> s e7-e8
L11          24 ("BRUNNER ERICH"/AU OR "BRUNNER ERICH EDUARDO"/AU)

=> d history

     (FILE 'HOME' ENTERED AT 11:27:15 ON 05 MAR 2003)

     FILE 'MEDLINE, CAPLUS, LIFESCI, EMBASE, USPATFULL, BIOSIS' ENTERED AT
     11:27:33 ON 05 MAR 2003
L1         1135 S LGS
L2           17 S HLGS
L3         1459 S LGS OR HLGS OR LEGLESS
L4          160 S L3 AND PROTEIN
L5           89 DUP REM L4 (71 DUPLICATES REMOVED)
L6        10213 S L5 AND (BCL()9) OR WNT
L7            4 S L5 AND ((BCL()9) OR WNT)
                E BASLER ?/AU
                E BASLER K?/AU
L8          270 S E2 OR E5
L9           78 DUP REM L8 (192 DUPLICATES REMOVED)
L10           3 S L9 AND (LGS OR HLGS OR LEGLESS)
                E BRUNNER E?/AU
                E BRUNNER ER?/AU
L11          24 S E7-E8

=> s l11 not l8
L12          16 L11 NOT L8

=> dup rem l12
PROCESSING COMPLETED FOR L12
L13          16 DUP REM L12 (0 DUPLICATES REMOVED)

=> s l13 and (lgs or hlgs or legless or wnt)
L14           0 L13 AND (LGS OR HLGS OR LEGLESS OR WNT)

=> e froesch b?/au
E1           15      FROESCH B/AU
E2           18      FROESCH B A/AU
E3            0 --> FROESCH B?/AU
E4            9      FROESCH BARBARA/AU
E5           13      FROESCH BARBARA A/AU
E6          103      FROESCH D/AU
E7            5      FROESCH DIETER/AU
E8          970      FROESCH E R/AU
E9            2      FROESCH E RUDI/AU
E10           1      FROESCH E RUDLOF/AU
E11         122      FROESCH E RUDOLF/AU
E12           3      FROESCH E RUDOLPH/AU

=> s e1 or e2 or e4 pr e5
L15          33 "FROESCH B"/AU OR "FROESCH B A"/AU OR "FROESCH BARBARA"/AU PR
                "FROESCH BARBARA A"/AU

=> s e1 or e2 or e4 or e5
L16          55 "FROESCH B"/AU OR "FROESCH B A"/AU OR "FROESCH BARBARA"/AU OR
                "FROESCH BARBARA A"/AU
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=> s l16 not l8
L17         48 L16 NOT L8

=> dup rem l17
PROCESSING COMPLETED FOR L17
L18          18 DUP REM L17 (30 DUPLICATES REMOVED)

=> s l18 and (lgs or hlgs or legless or wnt)
L19          0 L18 AND (LGS OR HLGS OR LEGLESS OR WNT)

=> e kramps t?/au
E1           4     KRAMPS T A/AU
E2           4     KRAMPS T A N/AU
E3           0 --> KRAMPS T?/AU
E4           6     KRAMPS THOMAS/AU
E5           2     KRAMPS THOMAS A/AU
E6           1     KRAMPTIZ DIETER/AU
E7           2     KRAMPTIZ R/AU
E8           1     KRAMR PATRICK J/AU
E9           1     KRAMRAEVA N A/AU
E10          1     KRAMRECH S/AU
E11          9     KRAMRISCH B/AU
E12          4     KRAMRISCH BERNARD/AU

=> s ee1-5
L20          1 EE1-5

=> s e1-e5
L21         18 ("KRAMPS T A"/AU OR "KRAMPS T A N"/AU OR "KRAMPS T?"/AU OR "KRAM
               PS THOMAS"/AU OR "KRAMPS THOMAS A"/AU)

=> s l21 not l8
L22         10 L21 NOT L8

=> s l22 and (lgs or hlgs or legless or wnt)
L23          0 L22 AND (LGS OR HLGS OR LEGLESS OR WNT)

=> e peter o?/au
E1         177     PETER O/AU
E2           4     PETER O F/AU
E3           0 --> PETER O?/AU
E4           1     PETER OESCH HANS/AU
E5           2     PETER OESCH N/AU
E6           1     PETER OESCH NELLY/AU
E7           1     PETER OHMAN K/AU
E8           1     PETER OLIVAINT S I S T E R/AU
E9          10     PETER OLIVER/AU
E10         19     PETER OLIVIER/AU
E11          1     PETER ORBAN/AU
E12          8     PETER OSKAR/AU

=> s e9-e10
L24         29 ("PETER OLIVER"/AU OR "PETER OLIVIER"/AU)

=> s l24 not l8
L25         22 L24 NOT L8

=> s l25 and (lgs or hlgs or legless or wnt)
L26          0 L25 AND (LGS OR HLGS OR LEGLESS OR WNT)
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